

## Asst. Prof. EZGİ ERDOĞAN

### Personal Information

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### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik (Dr), Turkey 2013 - 2018

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik Mühendisliği (YI) (Tezli), Turkey 2010 - 2013

Undergraduate, Sakarya University, Faculty Of Arts And Sciences, Department Of Mathematics, Turkey 2006 - 2010

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, Zero-Product Preserving Operators and Product-Factorability of Bilinear Maps, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), 2018

Postgraduate, Yeni bir operatörün bazı uzaylardaki spektral analizi, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Mühendisliği (YI) (Tezli), 2013

### Research Areas

Functional Analysis, Operators, Measure and Integration

### Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty Of Arts And Sciences, Mathematics, 2021 - Continues

Research Assistant, Marmara University, Faculty Of Arts And Sciences, Mathematics, 2012 - 2021

Researcher, Universidad Politecnica de Valencia, 2016 - 2017

### Courses

Analysis II, Undergraduate, 2020 - 2021

Analysis I, Undergraduate, 2020 - 2021

Social Work Practices, Undergraduate, 2018 - 2019, 2019 - 2020

Matematik II, Undergraduate, 2019 - 2020

Matematik I, Undergraduate, 2019 - 2020

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Index spaces and standard indices in metric modelling\***  
ERDOĞAN E., Ferrer-Sapena A., Jimenez-Fernandez E., Sanchez-Perez E. A.  
NONLINEAR ANALYSIS-MODELLING AND CONTROL, 2022 (Journal Indexed in SCI)
- II. **Approximate Diagonal Integral Representations and Eigenmeasures for Lipschitz Operators on Banach Spaces**  
ERDOĞAN E., Sanchez Perez E. A.  
MATHEMATICS, vol.10, no.2, 2022 (Journal Indexed in SCI)
- III. **Eigenmeasures and stochastic diagonalization of bilinear maps**  
ERDOĞAN E., Sanchez Perez E. A.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, 2020 (Journal Indexed in SCI)
- IV. **Self-defined information indices: application to the case of university rankings**  
Ferrer-Sapena A., Erdogan E., Jimenez-Fernandez E., Sanchez-Perez E. A. , Peset F.  
SCIENTOMETRICS, vol.124, no.3, pp.2443-2456, 2020 (Journal Indexed in SCI)
- V. **Integral representation of product factorable bilinear operators and summability of bilinear maps on  $C(K)$ -spaces**  
ERDOĞAN E., Sánchez Pérez E.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.483, no.2, 2020 (Journal Indexed in SCI)
- VI. **Factorization of multilinear operators defined on products of function spaces**  
ERDOĞAN E.  
LINEAR & MULTILINEAR ALGEBRA, 2020 (Journal Indexed in SCI)
- VII. **Product factorability of integral bilinear operators on Banach function spaces**  
ERDOĞAN E., Sánchez Pérez E., GÖK Ö.  
Positivity, vol.23, no.3, pp.671-696, 2019 (Journal Indexed in SCI)
- VIII. **Convolution factorability of bilinear maps and integral representations**  
ERDOĞAN E., GÖK Ö.  
INDAGATIONES MATHEMATICAE-NEW SERIES, vol.29, no.5, pp.1334-1349, 2018 (Journal Indexed in SCI)
- IX. **Convolution-continuous bilinear operators acting on Hilbert spaces of integrable functions**  
ERDOĞAN E., Calabuig J. M. , Sánchez Perez E. A.  
ANNALS OF FUNCTIONAL ANALYSIS, vol.9, pp.166-179, 2018 (Journal Indexed in SCI Expanded)
- X. **Operator ideal of s-type operators using weighted mean sequence space**  
ERDOĞAN E., KARAKAYA V.  
CARPATHIAN JOURNAL OF MATHEMATICS, vol.33, no.3, pp.311-318, 2017 (Journal Indexed in SCI)
- XI. **NOTES ON THE SPECTRAL PROPERTIES OF THE WEIGHTED MEAN DIFFERENCE OPERATOR  $G(u, v; \Delta)$  OVER THE SEQUENCE SPACE  $l(1)$**   
KARAKAYA V., ERDOĞAN E.  
ACTA MATHEMATICA SCIENTIA, vol.36, no.2, pp.477-486, 2016 (Journal Indexed in SCI)
- XII. **Notes on the spectral properties of the weighted mean difference operator  $G(u, v; \delta)$  over the sequence space  $l_1$**   
KARAKAYA V., ERDOĞAN E.  
Acta Mathematica Scientia, vol.36, no.2, pp.477-486, 2016 (Journal Indexed in SCI Expanded)
- XIII. **ON SPECTRAL PROPERTIES OF A NEW OPERATOR OVER SEQUENCE SPACES  $c$  AND  $c(0)$**   
ERDOĞAN E., KARAKAYA V.  
ACTA MATHEMATICA SCIENTIA, vol.34, no.5, pp.1481-1494, 2014 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Product Factorable Multilinear Operators defined on Sequence Spaces**  
ERDOĞAN E.  
Communications Faculty of Sciences University of Ankara SeriesSeries A1: Mathematics and Statistics, vol.69, no.2,

pp.152-166, 2020 (Journal Indexed in ESCI)

**II. ZERO PRODUCT PRESERVING BILINEAR OPERATORS ACTING IN SEQUENCE SPACES**

Erdogan E.

CARPATHIAN MATHEMATICAL PUBLICATIONS, vol.12, no.1, pp.55-68, 2020 (Journal Indexed in ESCI)

**III. Some Results on the Generalized Mellin Transforms and Applications**

ERDOĞAN E., Kocabaş S., DERNEK A. N.

Konuralp Journal of Mathematics, vol.7, pp.175-181, 2019 (Refereed Journals of Other Institutions)

**IV. IDENTITIES ON THE  $\epsilon(4n,1)$ -INTEGRAL TRANSFORM**

Dernek N., Mansimli G., Erdogan E.

JOURNAL OF INEQUALITIES AND SPECIAL FUNCTIONS, vol.8, no.5, pp.75-85, 2017 (Journal Indexed in ESCI)

**V. IDENTITIES ON THE  $E_{4n-1}$ -INTEGRAL TRANSFORM**

DERNEK A. N. , MANSIMLI G., ERDOĞAN E.

Journal of Inequalities and Special Functions, vol.8, pp.75-85, 2017 (Journal Indexed in ESCI)

### Refereed Congress / Symposium Publications in Proceedings

**I. ON INEQUALITIES OF SOME INTEGRAL TRANSFORMS**

ALBAYRAK D., ERDOĞAN E., KARATAŞ H. B. , UÇAR F.

10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2021), 25 August 2021

**II. On Inequalities of Some Integral Transforms**

ALBAYRAK D., ERDOĞAN E., Karataş H. B. , UÇAR F.

10th International Eurasian Conference On Mathematical Sciences And Applications. 25-27 August 2021. (IECMSA-2021), Sakarya, Turkey, 25 August 2021

**III. On Factorization of Multilinear Maps defined on Sequence Spaces by Zero Product Preservation**

ERDOĞAN E.

9th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2020), Üsküp, Macedonia, 25 - 28 August 2020

**IV. Product factorability of zero product preserving multilinear maps**

ERDOĞAN E.

Infinite Dimensional Analysis and Topology IDAT2019, Ivano-Frankivsk, Ukraine, 16 - 20 October 2019

**V. Factoring Bilinear Maps through Convolutio**

ERDOĞAN E., Sánchez Perez E. A. , GÖK Ö.

VI. Kadın Matematikçiler Derneği Çalıştayı, Konya, Turkey, 26 - 28 April 2019

**VI. Product Factorability of Bilinear Maps on Banach Function Spaces**

ERDOĞAN E., Sánchez Perez E. A.

Function Spaces XII, Krakov, Poland, 9 - 13 July 2018

**VII. A Factorization of Zero Product Preserving Bilinear Maps**

ERDOĞAN E., Sánchez Perez E. A. , GÖK Ö.

The 27th International Conference in Operator Theory, Temeşver, Romania, 2 - 06 July 2018

**VIII. Convolution factorability of zero product preserving bilinear maps**

ERDOĞAN E.

e Workshop on Infinite Dimensional Analysis on the occasion of the 60th birthday of Domingo García, Valensiya, Spain, 1 - 03 February 2018

**IX. s-sayıları ve multilineer operatörler**

ERDOĞAN E.

3. Marmara Matematik Günleri, İstanbul, Turkey, 28 - 29 September 2017

**X. Convolution-continuous bilinear operators acting on Hilbert spaces of integrable functions**

ERDOĞAN E., Calabuig J. M. , Sánchez Perez E. A.

Banach Spaces and Operator Theory with Applications, Poznan, Poland, 03 July 2017 - 07 January 2018, pp.36

- XI. **Some Results on the Generalized Mellin Transforms and Applications**  
Kocabaş S., ERDOĞAN E., DERNEK A. N.  
International Conference on Analysis and its Applications, Kırşehir, Turkey, 12 - 15 July 2016
- XII. **Operator Ideal of S Type Operators Using Weighted Mean Sequence Space**  
ERDOĞAN E., KARAKAYA V.  
International Conference on Analysis and its Applications, Kırşehir, Turkey, 12 - 15 July 2016
- XIII. **On the Spectrum of the Product Operator W on the Sequence Space by**  
ERDOĞAN E., KARAKAYA V.  
International Conference on Recent Advances in Pure and Applied Mathematics, (ICRAPAM 2014), Antalya, Turkey, 6 - 09 November 2014
- XIV. **The Spectrum of a New Operator On a Certain Sequence Space**  
ERDOĞAN E., KARAKAYA V.  
Karatekin Mathematics Days (KMD-2014), Çankırı, Turkey, 11 - 13 June 2014
- XV. **Bazı Dizi Uzaylarındaki Spektral Analiz**  
KARAKAYA V., ERDOĞAN E.  
I. KADIN MATEMATİKÇİLER DERNEĞİ ÇALIŞTAYI, Kocaeli, Turkey, 2 - 04 May 2014
- XVI. **The Spectrum of Matrix Operators on a Difference Sequence Space of Weighted Means**  
ERDOĞAN E., KARAKAYA V.  
International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2012), Pristine, KOSOVA, 3 - 07 September 2012
- XVII. **The Fine Spectra of a New Operator W on Sequence Space  $c_0$**   
ERDOĞAN E., KARAKAYA V.  
International Conference on Applied Analysis and Application (ICAAA-2012), İstanbul, Turkey, 20 - 24 June 2012

## Citations

Total Citations (WOS):26

h-index (WOS):3